

# LR Motor Shop Repairs

# **Job Number 104284**

Prepared for Kiswire (12060)

5100 industrial dr. S. white hall ar 71602

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1.0





# **AC Inspection as Found**

**Kiswire (12060)** 

5100 industrial dr. S. white hall, ar 71602

FolderID: 104284 FormID: 23732654

#### AC Inspection - Rev. 2

Location: LR MOTOR SHOP

Serial Number: 1013498VY

Description:25 HP NEMA MR W FAN

**ASSEMBLY** 

Hi-Speed Job Number:	104284
Manufacturer:	Other
Product Number:	PEWWE25-36-284T
Serial Number:	1013498VY
HP/kW:	25 (HP)
RPM:	3550 (RPM)
Frame:	284T
Voltage:	230 / 460
Current:	58.7/29.3 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.25
Enclosure:	TEFC
# of Leads:	12
J-box Included:	Complete
Coupling/Sheave:	Fan
Date Received:	03/13/2025
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 1 - High





19 - Good

## **Overall Condition**

03/20/2025 1. Report Date

### 2. Nameplate Picture



3. Photos of all six sides of the machine.















































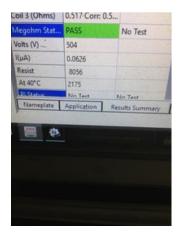




	4.	Describe the Overall Condition of the Equipment as Received  Pass	
	5.	Distance from the end of the shaft to the Coupling/Sheave  Flush	inches
Ir	nitial	Mechanical/Electrical	
	6.	Does Shaft Turn Freely?	(Y) Yes
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
	8.	Does Shaft Have Visible Damage?	(No) No
	9.	Assembled Shaft Runout	Inches
	10.	Assembled Shaft End Play	inches
	11.	Air Gap Variation <10%	
	12.	Lead Condition	(P) Pass
	13.	Lead Length	14 Inches
	14.	Does it have Lugs?, If so what is the Stud Size?	
	-	Yes	
	15.	Lead Numbers	T1-T12
	16.	Frame Condition	
	17.	Fan Condition	(P) Pass
	18.	Does motor have internal fan?	(No) No
	19.	Broken or Missing Components	
Ir	Initial Electrical Inspection		

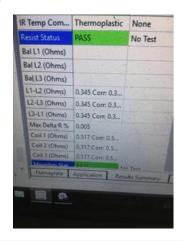
### 20. Insulation Resistance/Megger





#### 21. Winding Resistance

1-2 1-3 2-3



#### 22. Perform Surge Test

(P) Pass



23.	Number of Stator Slots	36
24.	Stator Condition	
25.	Stator Thermistors/Ohms	
26.	Stator Overloads/Ohms	

## **Mechanical Inspection**





29.	Drive End Bearing Qty.	1
30.	Drive End Bearing Type	(Ball) Ball Bearing
31.	Drive End Lubrication Type	(Grease) Grease Lubricated
32.	Drive End Bearing Insulation or Grounding Device?	
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer
34.	Drive End Bearing Condition	
-	Normal signs of wear	



35	5. Opposite Drive End Bearing Brand	skf
36	6. Opposite Drive End Bearing Number-	6309



37.	Opposite Drive End Bearing Qty.	1
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated
40.	Opposite Drive End Bearing Insulation or Grounding Device?	
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap ring
42.	Opposite Drive End Bearing Condition	
-	Normal signs of wear	



43.	Drive End Seal	slinger
44.	Opposite Drive End Seal	slinger
Rotor	Inspection	
45.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast
46.	Growler Test	(Pass) Pass
47.	Number of Rotor Bars	28
48.	Rotor Condition	
49.	List the Parts needed for the Repair Below	
	6311 6309 Rivets	

		Mui		
		/ ///		
M	echa	anical Fits- Rotor		
	51.			inches
	<b>-</b>	0.03		
	52.	Rotor Runout	Datas Dad	Occasio Di la Fall Bassia
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
	53.	Coupling Fit Closest to Bearing Housi	ng	
		0 Degrees	90 Degrees	120 Degrees
			•	
	54.	Coupling Fit Closest to the end of the	Shaft	
		0 Degrees	60 Degrees	120 Degrees
	55	Drive End Bearing Shaft Fit		
	55.	0 Degrees	60 Degrees	120 Degrees
		o Degrees	00 Degrees	120 Degrees
	-	2.1662-2.1661-2.1661		
	56.	Drive End Bearing Shaft Fit Condition		(P) Pass
	57.	Opposite Drive End Bearing Shaft Fit		
		0 Degrees	60 Degrees	120 Degrees
		1.7720-1.7720-1.7720		
		Opposite Drive End Bearing Shaft Fit	Condition	(P) Pass
		Shaft Air Seal Fits	Condition	(F) F a 3 5
	00.	Drive End Air Seal	Opposite Drive End Air Seal	
		Dive Ena / in Goal	Opposite Bille Ella / III Coal	
M	echa	anical Fits- Bearing Housings		
	60.	Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
	_	4 7050 4 7054 4 7050		
	61	4.7250-4.7251-4.7250  Drive End - Endbell Bearing Fit Condition	tion	(P) Pass
		Opposite Drive End - Endbell Bearing		(F) Fa55
	02.	0 Degrees	60 Degrees	120 Degrees
		o Degrees	00 Degrees	120 Degrees
	-	3.9372-3.9372-3.9371		
	63.	Opposite Drive End - Endbell Bearing	Fit Condition	(P) Pass
	64.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	G.F.	End Pall Air Saal Fita		
	დე.	End Bell Air Seal Fits	Occasio Dil a Fall Air Occio	

Cw

50. Signature of Technician that Disassembled Motor

Drive End Air Seal

Opposite Drive End Air Seal

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<b>6</b> 6.	List Machine Work Needed Below			
	Drill and replace all rivets in fan			
	Technician			Cw
-	Co sign:DM			
	Cause of Failure			
68.	Failure locations			
	Bearings and fan rivets			
69.	Root cause of failure Wear			
Dynar	mic Balance Report			
70.	Rotor Weight and Balance Grade			
	Rotor Weight	Balance Grade		
71.	Initial Balance Readings			
	Drive End	Opposite Drive End		
72.	Final Balance Readings			
	Drive End	Opposite Drive End		
73	Technician			
Asser				
	QC Check All Parts for Cleanliness Pr	rior to Assembly		
75.		•		
76.		or to docombly		
	Assembled Shaft Endplay			
	Assembled Shaft Runout			
	Test Run Voltage			
	Volts	Volts	Volts	
80.	Test Run Amperage			
	Amps	Amps	Amps	
81.	Drive End Vibration Readings - Inches	s Per Second		
	Horizontal	Vertical	Axial	
82.	11	•		
	Horizontal	Vertical	Axial	
83.	Ambient Temperature - Fahrenheit			
84.	Drive End Bearing Temps - Fahrenhe	it		
	5 Minutes	10 Minutes	15 Minutes	

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85. Opposite Drive	85. Opposite Drive End Bearing Temps - Fahrenheit		
5 Minutes	10 Minutes	15 Minutes	
86. Document Fin	al Condition with Pictures after paint		
87. Final Pics and	QC Review		



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